Service Manual

74 PM32/01B/02B/05B/07B

Stereo amplifier

This service manual explains them by extracting the different specifications from those of the model PM-32, based on the model PM-30. For both electrical and mechanical information on the after-sales service which is not stated, all information is described in the model PM-30 service manual (Codenumber is 4822 725 50912). The dispatch of the parts for after-sales service has to be referred to this service manual, with first priority. For this reason, please use this service manual with referring the model PM-30

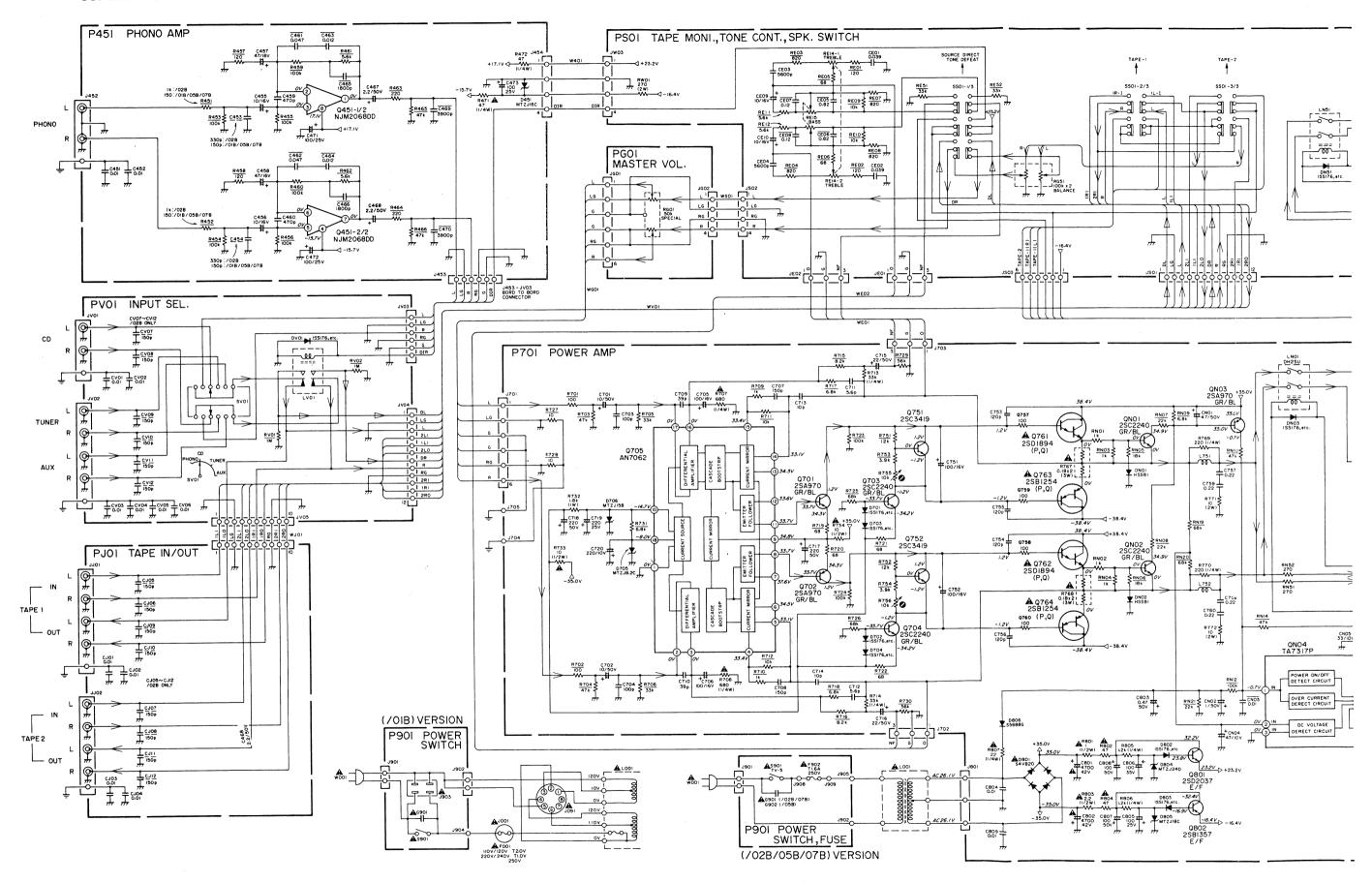
service manual, without fail.

manoamazz®

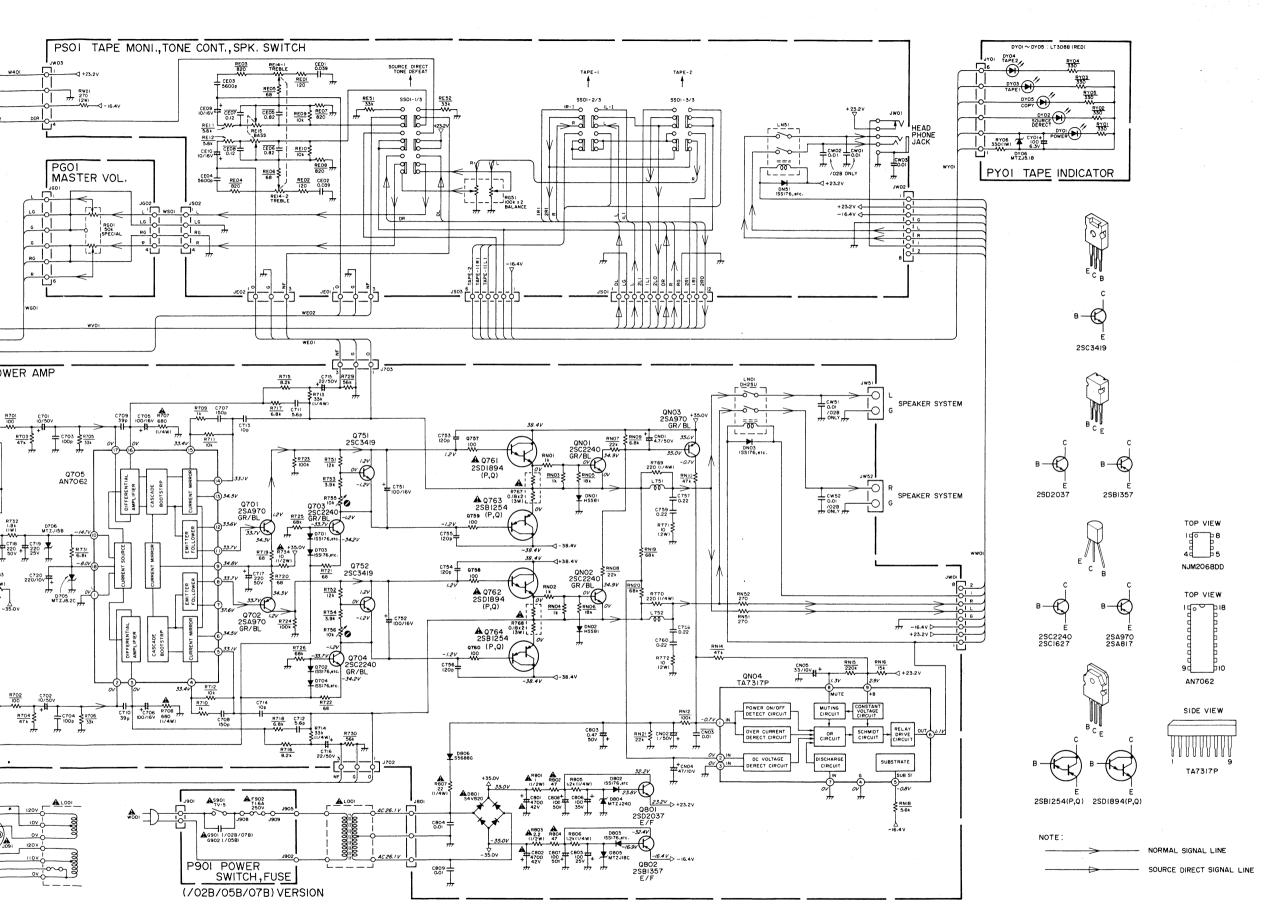
model PM-32

First issue: 1992 4822 725 50997

PAGE	REF. DESIG.	PM-30	PM-32	DESCRIPTION
14	001B	4822 425 40176	4822 425 40184	Front Panel Assembly
	013B	4822 410 60395	4822 410 60902	Button, Power
	001F	4822 466 92914	_	
:	005G	4822 462 41477	4822 462 41932	Leg
	001T	4822 736 20695	4822 736 21419	User Manual
	▲ L001	4822 146 21554	4822 146 21671	Power Transformer /02B
	C703	4822 121 51517	4822 121 50562	Film 100pF ±5%
	C704	4822 121 51517	4822 121 50562	Film 100pF ±5%
16	CW03		4822 122 32486	Ceramic 0.01μF +80% -20%
10	LV01	4822 280 20195	4822 280 20501	Relay, MR62-24SR
	LVUI	4622 260 20193	4822 200 20001	neldy, MNO2-243N
17	RY06	4822 111 50474	4822 053 10331	Resistor 330 Ω ±5% 1W
	C467	4822 124 90358	4822 124 90357	Elect 2.2µF 50V
	C468	4822 124 90358	4822 124 90357	Elect 2.2μF 50V
	R472	4822 111 30006	4822 052 10499	Resistor 47 Ω ±5% 1/4W
	C701	4822 124 22571	4822 124 23082	Elect 10μF 50V
	C702	4822 124 22571	4822 124 23082	Elect 10μF 50V
,	C707	4822 121 51037	4822 121 50416	Film 150pF ±5%
	C708	4822 121 51037	4822 121 50416	Film 150pF ±5%
18	C753			
, 0	\ \ \ \ \ \	4822 121 43126	4822 121 50548	Film 120pF ±5%
	C756	1022 121 10120	1022 121 000 10	, iiii 126pt = 570
	RN01	4822 111 91257	4822 052 10102	Resistor 1KΩ ±5% 1/6W
	RN02	4822 111 91257	4822 052 10102	Resistor 1K Ω ±5% 1/6W
	R713	4822 273 10214	4822 050 23303	Resistor 33K Ω ±5% 1/4W
	R714	4822 273 10214	4822 050 23303	Resistor 33KΩ ±5% 1/4W
	R732	4822 116 60343	4822 053 10182	Resistor 1.8K Ω ±5% 1W
	R755	4822 100 11373	4822 100 11351	10KΩ, Trimming
	R756	4822 100 11373	4822 100 11351	10KΩ, Trimming
	R757	4822 111 91285	_	
	R758	4822 111 91285	_	
	R759	4822 111 91285	_	
	R760	4822 111 91285	-	
	R763	4822 116 60267	_	
	R764	4822 116 60267	_	
	R765	4822 111 91424	_	
	R766	4822 111 91424	_	
	R769	4822 116 52849	4822 050 22201	Resistor 220 Ω ±5% 1/4W
	R770	4822 116 52849	4822 050 22201	Resistor 220 Ω ±5% 1/4W
[R771	4822 111 90726	4822 053 11109	Resistor $10\Omega \pm 5\%$ 2W
	R771	4822 111 90726	4822 053 11109	Resistor $10\Omega \pm 5\% 2W$
	R772	4822 111 91424	4022 000 11100	110515101 1042 -070 244
	R774	4822 111 91424	_	



NOTE ON SAFETY:
Symbol A. Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol A. Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.



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REF. DESIG.	PM-30	PM-32	DESCRIPTION
Q751	4822 130 60526	4822 130 60117	Transistor 2SC3419Y
Q752	4822 130 60526	4822 130 60117	Transistor 2SC3419Y
Q757	4822 130 60696	4822 052 10101	Resistor 100 Ω ±5% 1/6W
Ω758	4822 130 60696	4822 052 10101	Resistor 100Ω ±5% $1/6W$
Q759	4822 130 69693	4822 052 10101	Resistor 100Ω ±5% 1/6W
0760	4822 130 69693	4822 052 10101	Resistor 100Ω ±5% 1/6W
	4822 130 60697	4822 130 63044	Transistor 2SD1894(P, Q)
	4822 130 60697	4822 130 63044	Transistor 2SD1894(P, Q)
	4822 130 60694	4822 130 63043	Transistor 2SB1254(P, Q)
▲ Q764	4822 130 60694	4822 130 63043	Transistor 2SB1254(P, Q)
IW52	4822 290 81373	4822 290 81374	Terminal, Speaker Black-Red
		4822 157 63085	Coil, Speaker
L762	4822 157 51739	4822 157 63085	Coil, Speaker
	Q751 Q752 Q757 Q758 Q759 Q760 ♠ Q761 ♠ Q762 ♠ Q763 ♠ Q764 JW52 L761	Q751 4822 130 60526 Q752 4822 130 60526 Q757 4822 130 60696 Q758 4822 130 60696 Q759 4822 130 69693 Q760 4822 130 69693 AQ761 4822 130 60697 AQ762 4822 130 60697 AQ763 4822 130 60694 AQ764 4822 130 60694 JW52 4822 290 81373 L761 4822 157 51739	Q751 4822 130 60526 4822 130 60117 Q752 4822 130 60526 4822 130 60117 Q757 4822 130 60696 4822 052 10101 Q758 4822 130 60696 4822 052 10101 Q759 4822 130 69693 4822 052 10101 Q760 4822 130 69693 4822 052 10101 A Q761 4822 130 60697 4822 130 63044 A Q762 4822 130 60697 4822 130 63044 A Q763 4822 130 60694 4822 130 63043 A Q764 4822 130 60694 4822 130 63043 JW52 4822 290 81373 4822 290 81374 L761 4822 157 51739 4822 157 63085

IDLING CURRENT ADJUSTMENT

- (1) Before switching the power ON, set the Master Volume control to the minimum position and the Balance and Tone controls to the center positions. Also set semi-fixed resistors R755 (L CH) and R756 (R CH) on PCB P7Q1 to the center positions.
- (2) Each of the cement resistors R767 (L CH) and R768 (R CH) on the PCB P701 is provided with three test points. Connect a digital voltmeter, set for the DC voltage input, to the test points at the two extremities of the three test points of R767 or R768.
- (3) After the setup above, switch the power ON and adjust semi-fixed resistor R755 (L CH) or R756 (R CH) on PCB P701 according to the digital voltmeter reading. The target setting value is 7.2mV (20mA) for both the L CH and R CH.

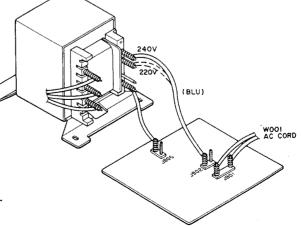
Please refer to the table below.

Elapsed time after power ON	Idling current setting value		
30 sec. — 1 min.	7.4mV		
1 min. — 2 min.	7.2mV		
2 min. – 4 min.	7.2mV		
More than 4 min.	7.2mV		

HOW TO CHANGE THE SUPPLY VOLTAGE (/05B/07B Versions)

With the /05B/07B Versions, the rated supply voltage of 240V can be changed to 220V.

Refer to the right-hand diagram for the voltage change procedure.



Service Manual

74 PM30/01B/02B/05B/07B 10B/12B/15B/17B

Stereo amplifier





PM-30

PM-30SE

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model PM-30/PM-30SE

First issue: 1990

MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, MARANTZ company has created the ultimate in stereo sound.

Only **original MARANTZ parts** can insure that your MARANTZ product will continue to perform to the specifications for which it is famous.

Parts for your MARANTZ equipment are generally available to our National Marantz Subsidiary or Agent.

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- 1. Complete address
- 2. Complete part numbers and quantities required
- 3. Description of parts
- 4. Model number for which part is required
- 5. Way of shipment
- Signature: any order form or telex must be signed otherwise such part order will be considered as null and void.

MARANTZ INTERNATIONAL

Vestdijk 9

5600 MD Eindhoven The Netherlands Phone: +31/40.758290

Telefax: +31/40.75.82.99

Telex: 35000 PHTC NL routing IND NLMTFAT

PARTS ORDERING

Parts may be ordered at the following addresses:

AUSTRIA HORNYPHON Vertriebsgesellschaft GmbH Wienerbergstrasse 1 A 1101 Wien Austria

Telex: 132.332

SVD DIVISION MARANTZ Industrialaan 1 1720 Groot-Bijgaarden Belgium Telex: 24466

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DIVISION OF PHILIPS S.A.
AV. Santa Maria, 0760
Casilla 2687
Santiago
Telex: 240.239

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MARANTZ DIVISION OF PHILIPS SERVICE A/S Prags Boulevard 80 Postbox 1919 DK-2300 København S Denmark Telex: 31201 FINLAND
MARANTZ
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Kaivokatu 8

Kaivokatu 8 00100 Helsinki Finland Telex: 124811

FRANCE

MARANTZ FRANCE 4 Rue Bernard Palissy 92600 Asnières France Telex: 611651

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MARANTZ GERMANY GmbH Alexanderstrasse 1 2000 Hamburg Germany

THE NETHERLANDS

Elpro Marantz Wint Hontlaan 28 3526 KV Utrecht The Netherlands Telex: 4748

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MARANTZ DIVISION OF PHILIPS A/S Sandstuveien 40 0680 Oslo 6 Norway Telex: 72640 GREAT BRITAIN

MARANTZ AUDIO U.K. Ltd Unit 15/16 Saxon Way Industrial Estate Moor Lane Harmondsworth UB7 OLW Great Britain Telex: 935196

GREECE

SHERTON ELECTRONICS S.A. P.O.Box 21025 Hippocratus Street 188 Athens 11471 Greece Telex: 216.795

JAPAN

MARANTZ JAPAN, Inc. 35-1, 7-chome, Sagamiono Sagamihara-shi, Kanagawa

Japan

AL ALAMIAH ELECTRONICS Ussama Building Fahd al Saleem Street P.O.Box 23781 Safat-Kuwait

Telex: 22694

ITALY MARANTZ ITALIANA S.P.A. Via Chiese, 74 20126 Milano Italy SAUDI ARABIA

AL ALAMIAH ELECTRONICS P.O.Box 5954 University Street Riyadh 11432 Saudi Arabia Telex: 401530

SOUTH AFRICA

MARANTZ DIVISION OF PHILIPS S.A. Main Road Martindale P.O. Box. 58088 Newville 21114 South Africa

SPAIN

PHONO S.A. Ignacio Iglesias 10 Badalona (Barcelona) Spain Telex: 59355

SWEDEN

MARANTZ DIVISION OF PHILIPS Försäljning AB Tegeluddsvägen 1 S-115 84 Stockholm Sweden Telex: 14060 SWITZERLAND

MARANTZ Technischer Service Duenstrasse 3 3186 Düdingen Switzerland

TURKEY

DOGRUOL Ltd. I.M.C. 6 Blok N°6310 Unkapani Istanbul Turkey Telex: 22085

MALTA

CACHIA & GALEA Republic Street, 68D Valetta Telex: 1682

PORTUGAL MARANTZ

MARANTZ Divisao philips S.A. service Outurela-carnaxide 2795 LinDA-A-VELHA Telex: 43906

All of the above locations are fully equipped to take care of your total service needs. Because various countries have differing configuration requirements, it is necessary that you contact the service facility in your particular country. In the event that there is no service location listed for your country, please, contact the nearest facility for the necessary assistance.

In case of difficulties, do not hesitate to contact the Technical Department at abovementioned address.

TECHNICAL SPECIFICATIONS (DIN)

Signal to Noise Ratio (A weighted)

Tape Output Impedance (Phono)

Tone Control Action 100 Hz

Input Sensitivity

Input Impedance

Power Amplifier Section

IHF Dynamic Po-	wer	
2 ohms		: 65W
4 ohms		: 60W
8 ohms		: 42W
Power Output Pe	r Channel	
DIN 8 ohms	1 kHz 1% THD	: 38W
FTC 4 ohms	40-20 kHz 0.06% THD	: 40W
FTC 8 ohms	40-20 kHz 0.03% THD	: 35W
Total Harmonic D	Distortion at 8 ohms	: 0.015%
I.M. Distortion at	: 8 ohms	: 0.015%
Damping Factor		: 100
Phono Amplifier	Section	
MM Cartridge Inp	out	
Frequency Dif	ference	: ±0.5 dB
Input Sensitivi	ty	: 2.5 mV
Input Impedar	nce	: 47k Ohms
High Level Sectio	n	
Frequency Res	sponse	: 10-60 kHz
Ciamal ta Nata		07.10

: 87 dB : 150 mV

: 33k Ohms

: 220 Ohms

: ±6 dB

: ±6 dB

General	
Power Requirements 2 Voltage version 4 Voltage version	: 220V/240V : 110V-240V
Power Consumption (Rated Power) AB Class Moode A Class Moode	: 135W : –
Dimensions Panel Width Panel Height Depth	: 420 mm : 118 mm : 280 mm
Weight Unit alone	: 10 kg

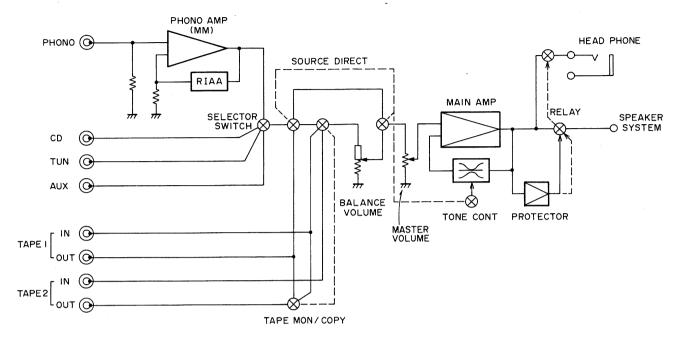
Tape Output Level [Phono (MM) 5 mV 1 kHz Input] : 300 mV

10 kHz

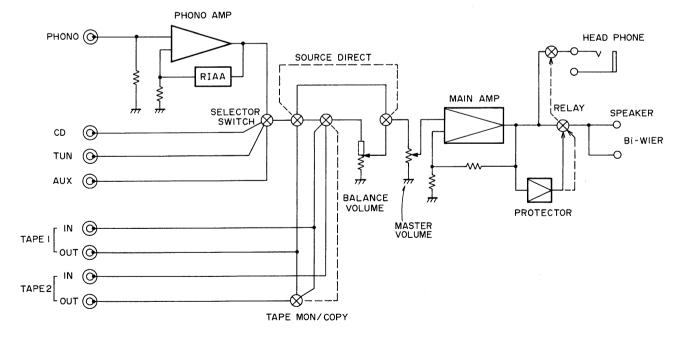
Specifications and appearance are subject to change for modification without notice.

1. BLOCK DIAGRAM

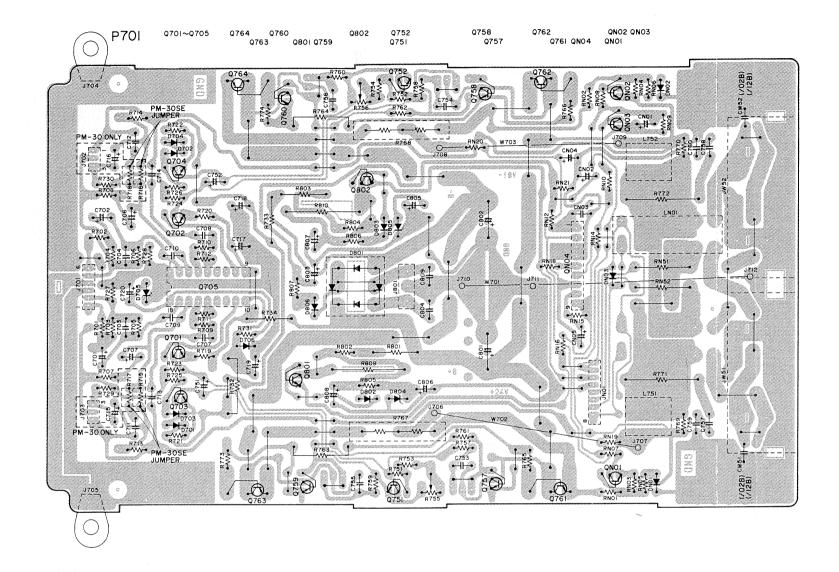
PM-30

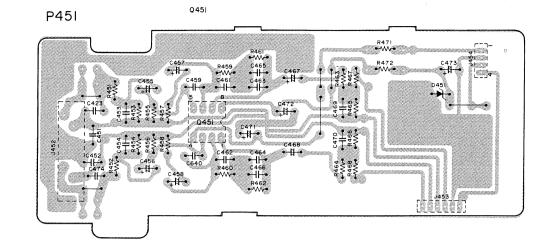


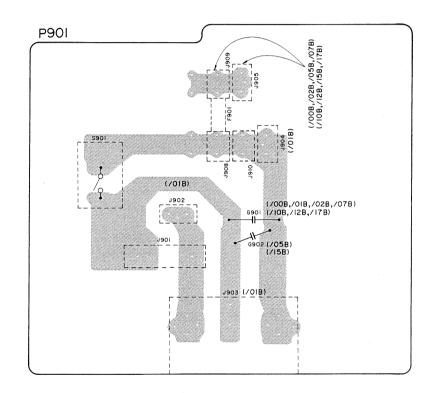
PM-30SE

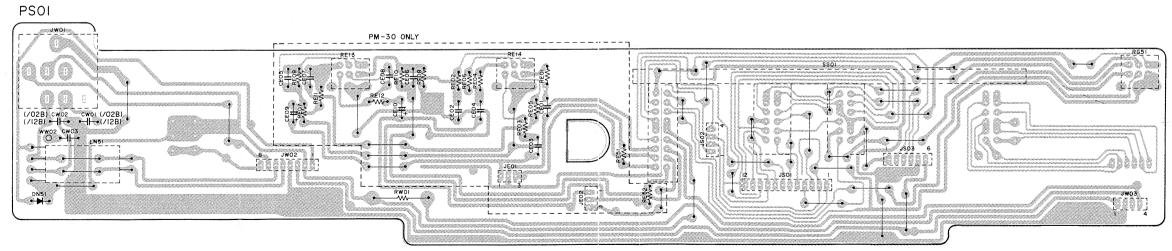


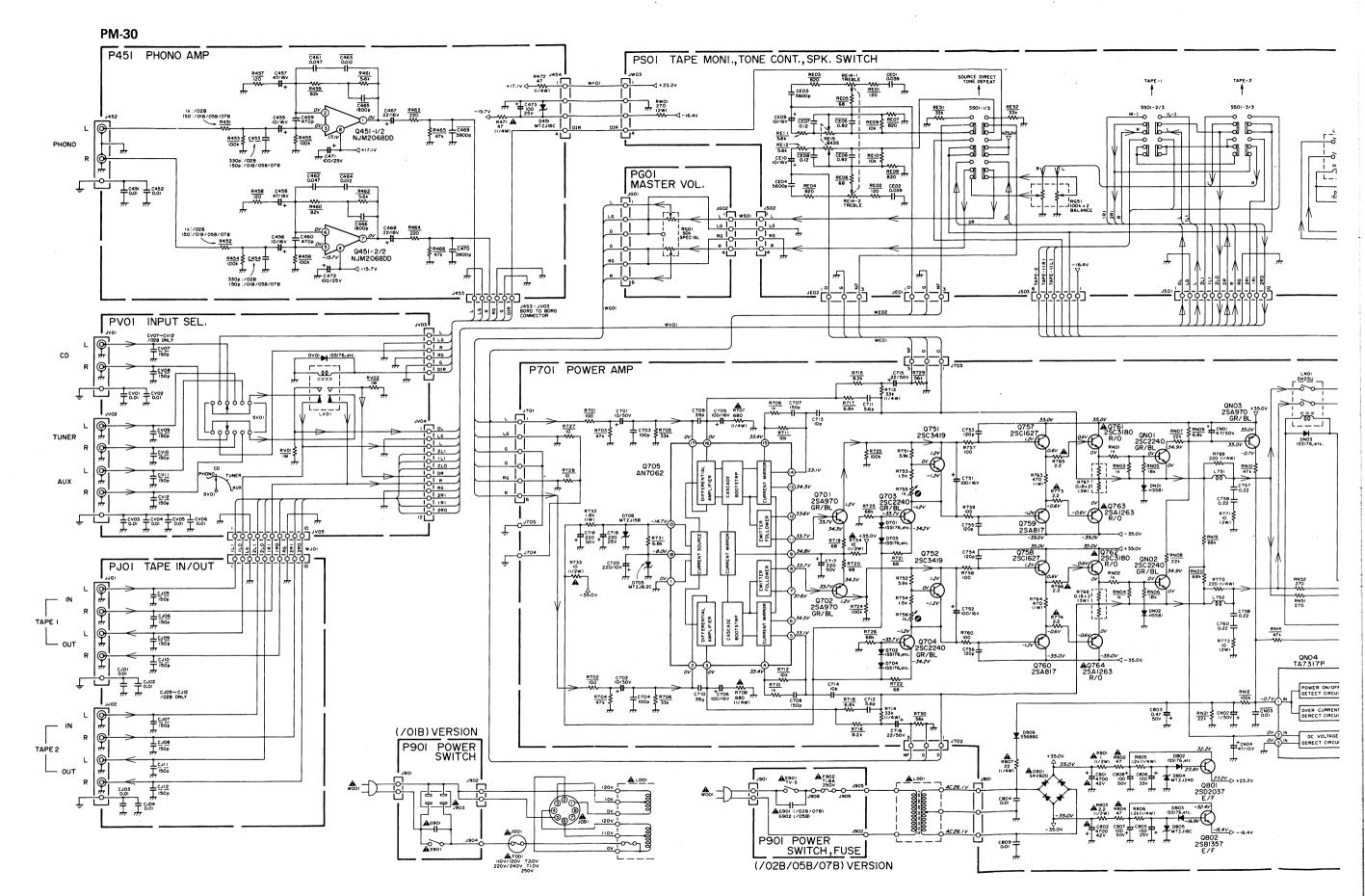
2. SCHEMATIC DIAGRAM AND PARTS LOCATION (Pattern side)



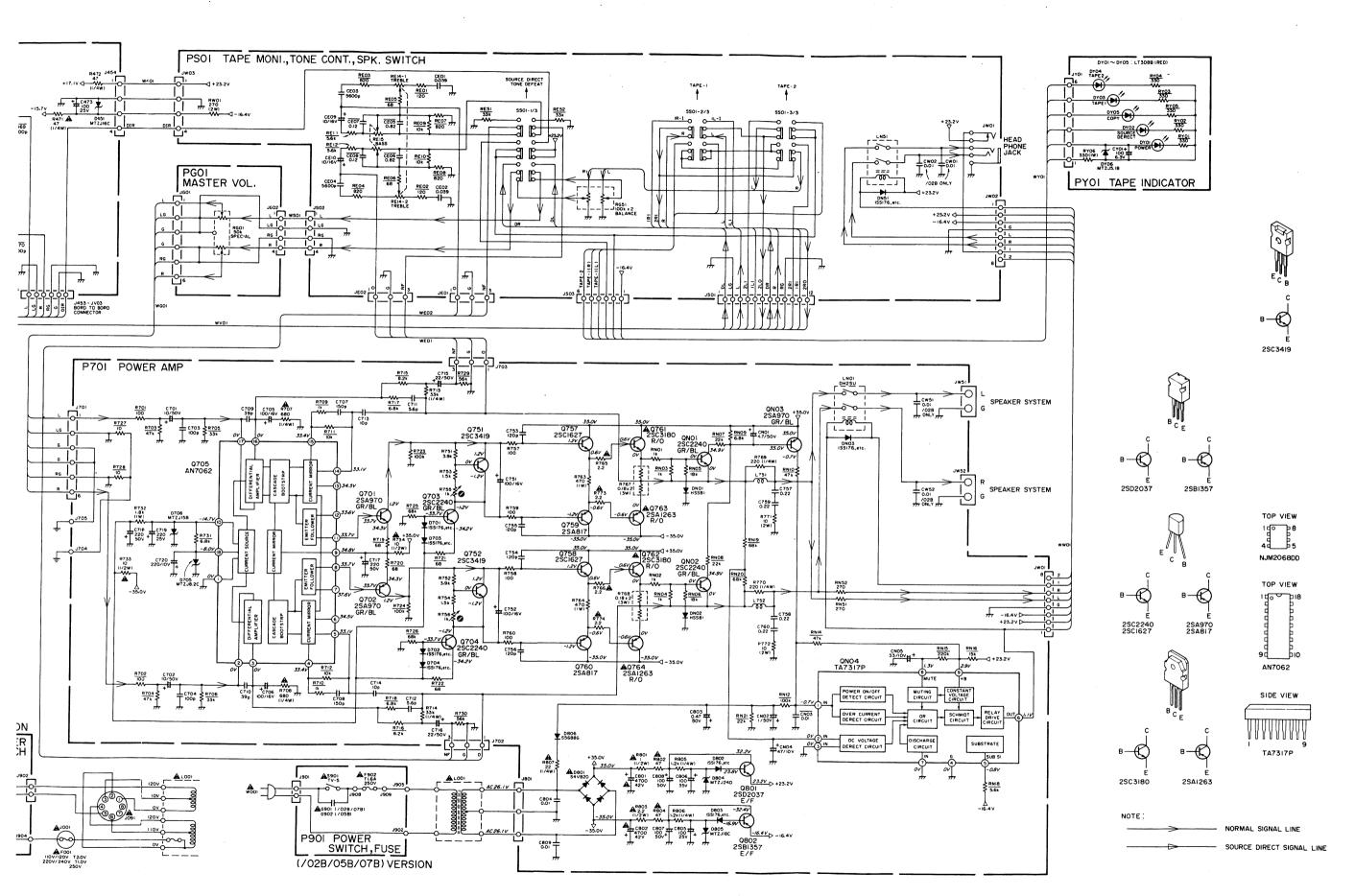






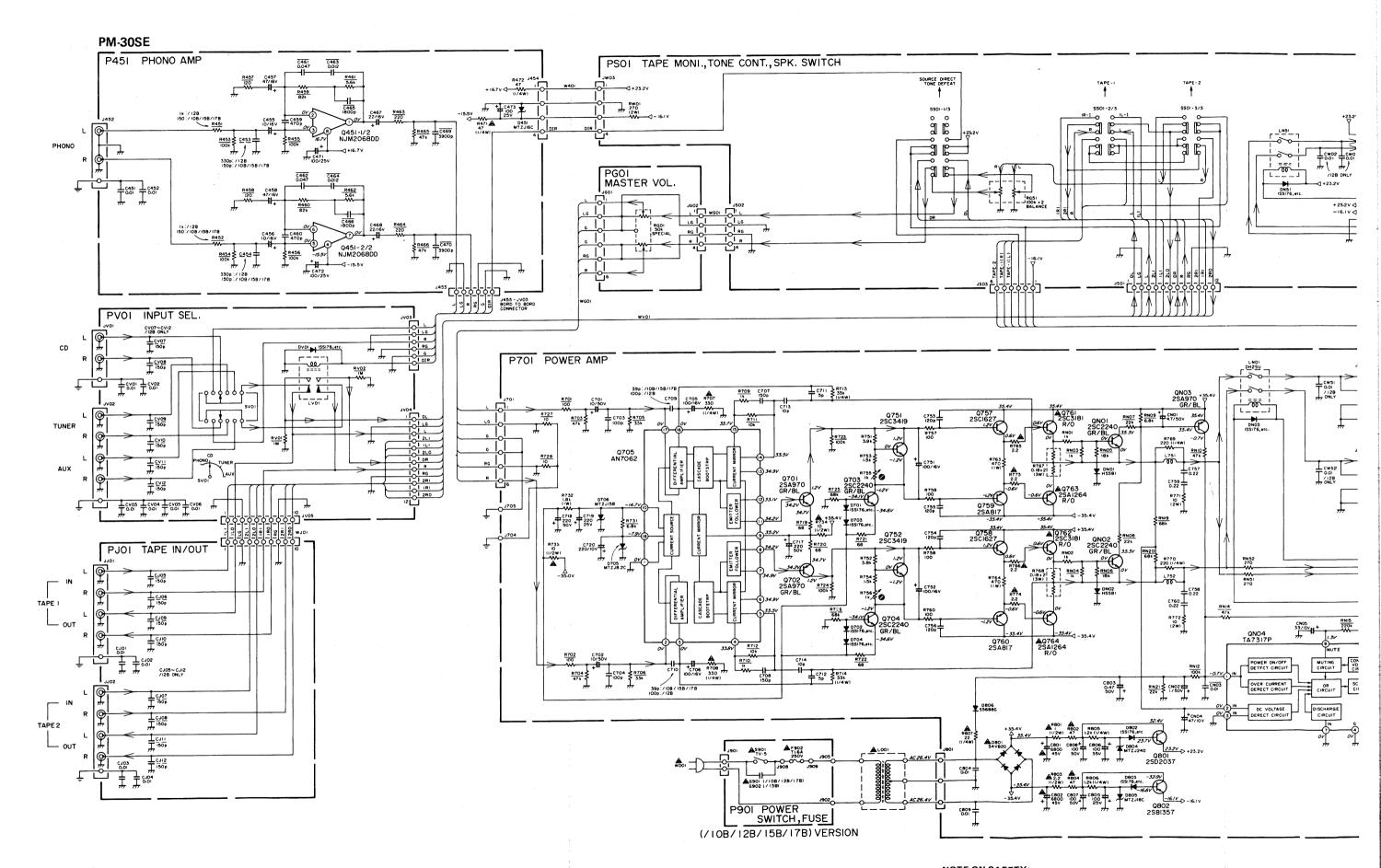


NOTE ON SAFETY:
Symbol & Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol & . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

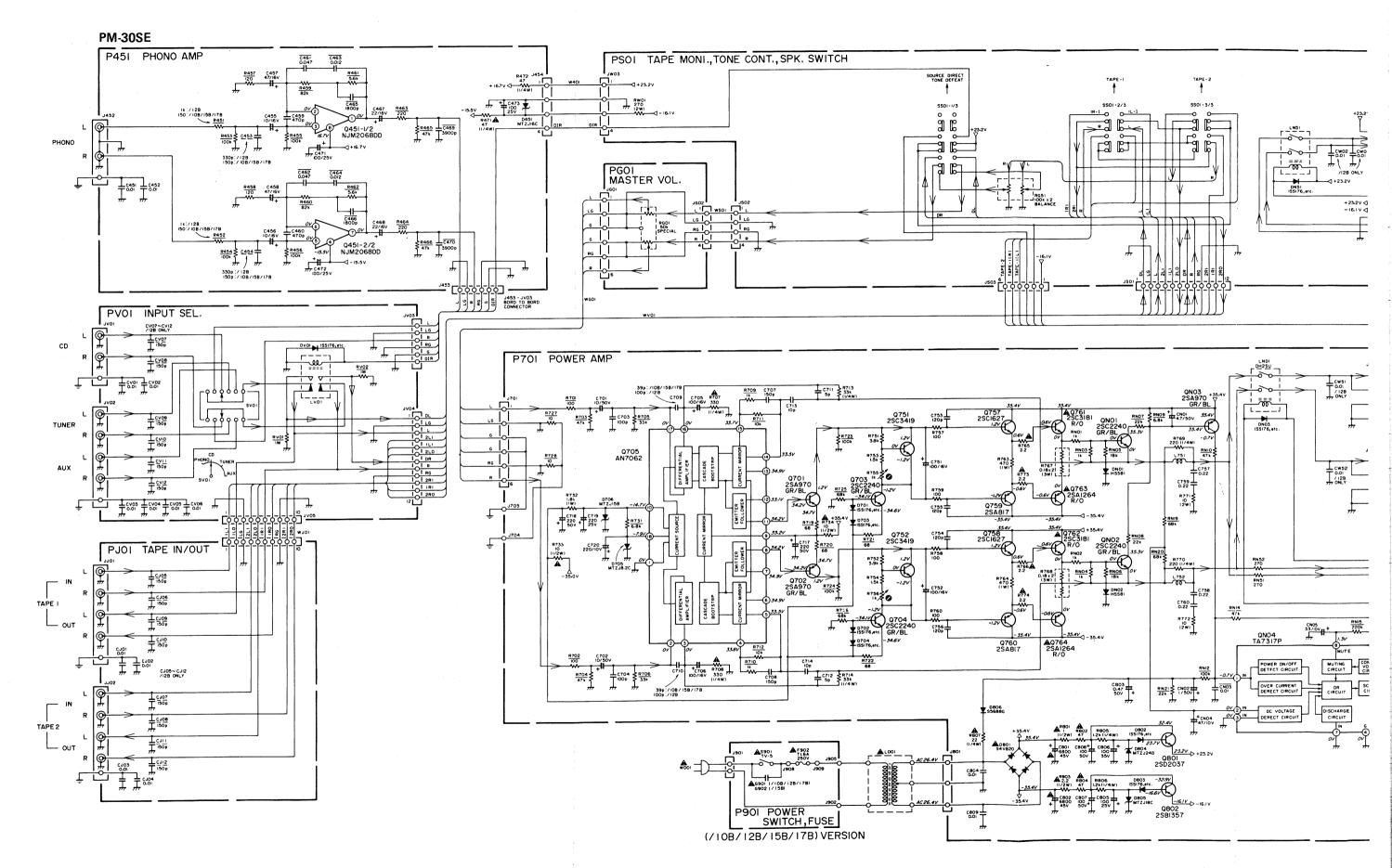


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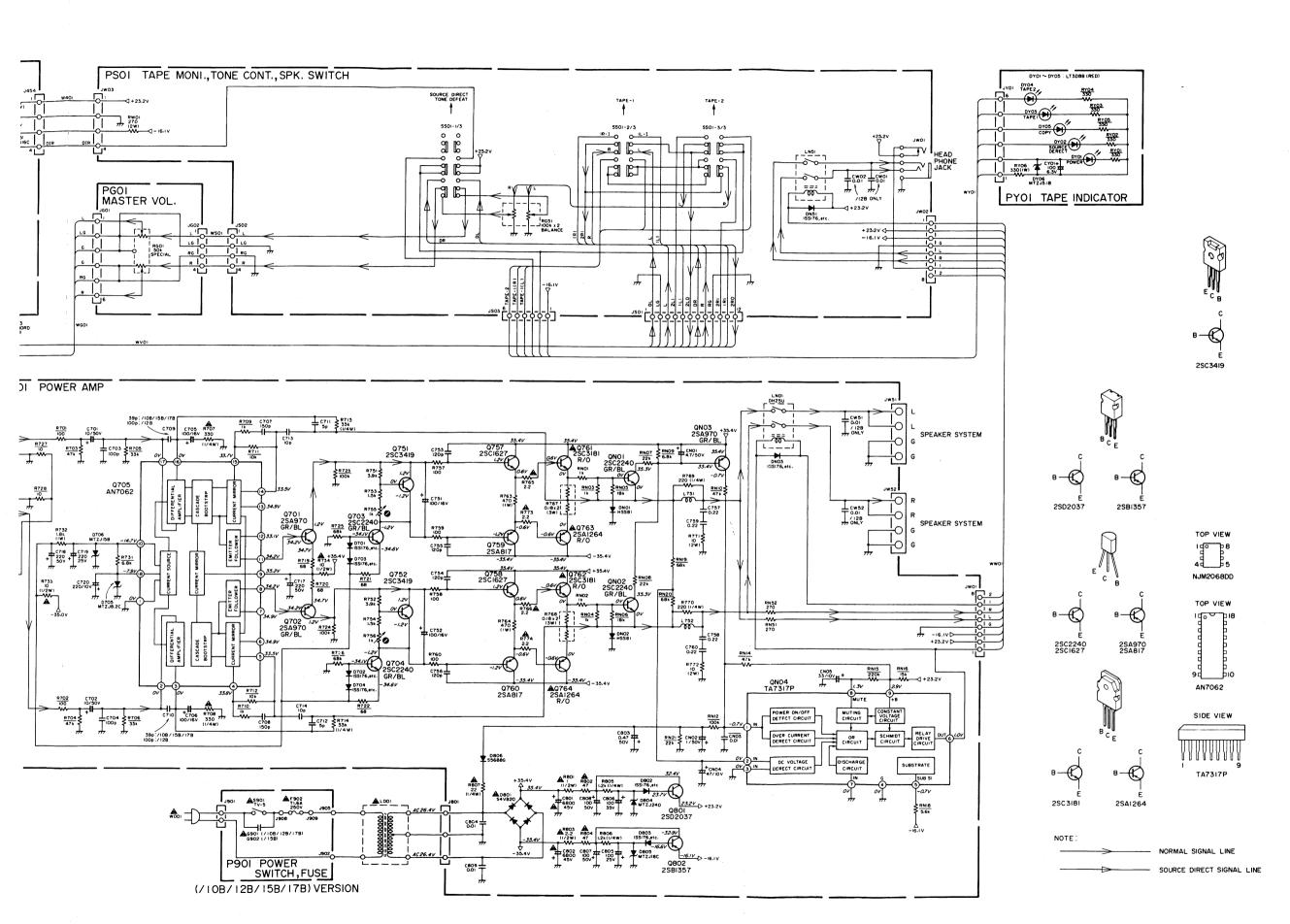
Symbol A Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol A. Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.



NOTE ON SAFETY:

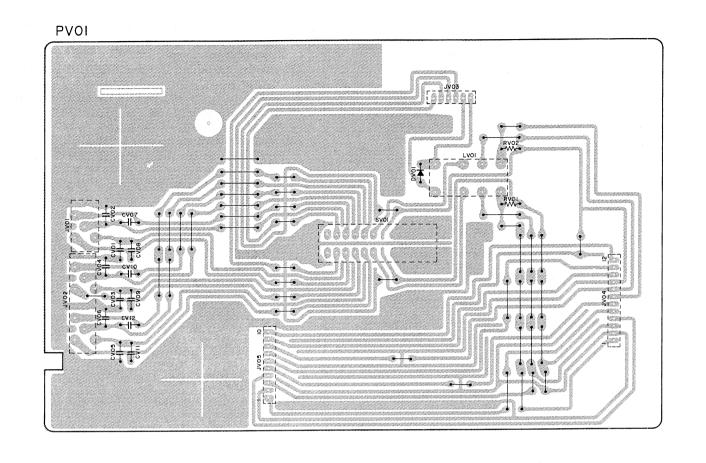
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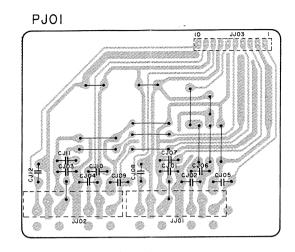
Symbol ▲ Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol A . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

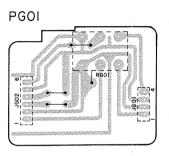


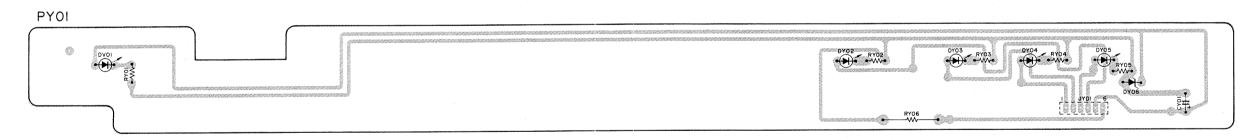
NOTE ON SAFETY:

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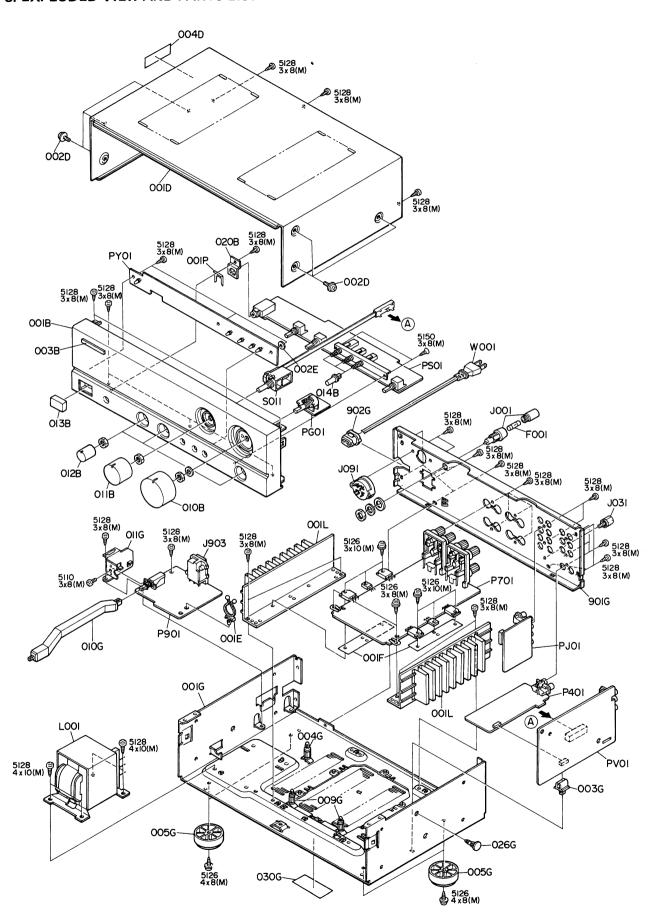








3. EXPLODED VIEW AND PARTS LIST



REF. DESIG.	PART NO.	DESCRIPTION
001B	4822 425 40176	Front Panel Assembly
	4822 425 40179	/01B/02B/05B/07B Front Panel Assembly /10B/12B/15B/17B
003B	4822 459 10943	Badge
010B	4822 413 41544	Knob, Volume
011B	4822 413 41545	Knob, Selector
012B	4822 413 41589	Knob, Tone/Balance
	4822 413 31551	/01B/02B/05B/07B Knob, Tone/Balance
1		/10B/12B/15B/17B
013B 014B	4822 410 60395 4822 410 60343	Button, Power Button, Speaker
002D	4822 501 11008	Screw
001F	4822 466 92914	Sheet, DENKA
005G	4822 462 41477	Leg
010G	4822 404 60628	Link, Power Switch
902G	4822 532 60948	Bushing, AC Cord
	4822 532 61184	/02B/07B/01B/10B/12B/17B Bushing, AC Cord /05B/15B
001P	4822 401 11351	Clamper, Phono Jack
▲ F001 ▲ F002	4822 070 31002 4822 253 30206	Fuse, 1A 250V /01B Fuse, 2A 250V /01B
▲ J001	4822 256 30233	Jack, Fuse Holder /01B
J031	4822 290 40297	Terminal, GND
▲ J091 ▲ J092	4822 272 10227 4822 265 10092	Voltage Selector /01B Jack, AC Adapter /01B
▲ L001	4822 146 21554	Power Transformer /02B/05B/07B/10B/12B/15B/17
	4822 146 21567	Power Transformer /01B
S011	4822 273 10214	Rotary Switch, Selector
001T	4822 736 20695 4822 736 20715	User Manual /01B/02B/05B/07B User Manual /10B/12B/15B/17B

4. IDLING CURRENT ADJUSTMENT

- (1) Before switching the power ON, set the Master Volume control to the minimum position and the Balance and Tone controls to the center positions. Also set semi-fixed resistors R755 (L CH) and R756 (R CH) on PCB P701 to the center positions.
- (2) Each of the cement resistors R767 (L CH) and R768 (R CH) on the PCB P701 is provided with three test points. Connect a digital voltmeter, set for the DC voltage input, to the test points at the two extremities of the three test points of R767 or R768.
- (3) After the setup above, switch the power ON and adjust semi-fixed resistor R755 (L CH) or R756 (R CH) on PCB P701 according to the digital voltmeter reading. The target setting value is 15 mV (41.6 mA) for both the L CH and R CH.

Please refer to the table below.

Elapsed time after power ON	Idling current setting value		
30 sec. — 1 min.	15 mV		
1 min. – 2 min.	16 mV		
2 min. – 4 min.	16.6 mV		
More than 4 min.	15 mV		

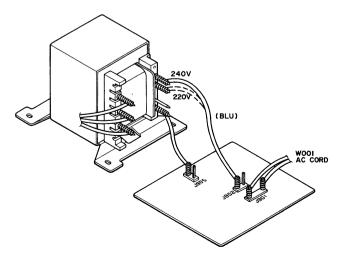
Note on Safety:

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5. HOW TO CHANGE THE SUPPLY VOLTAGE (/02B/05B/07B/10B/12B/15B/17B Versions)

With the /05B/07B/15B/17B Versions, the rated supply voltage of 240V can be changed to 220V. In the same way, the 220V rated supply voltage of the /02B/10B/12B Versions can be changed to 240V.

Refer to the following diagram for the voltage change procedure.



6. TEST EQUIPMENT REQUIRED FOR SERVICING

This table lists the test equipment required for servicing

ltem	Use
Distortion Analyzer	Distortion measurements
Audio Oscillator Sinewave and squarewave signal source	
ACVTVM	Voltage measurements (AC)
Oscilloscope	Waveform analysis and trouble shooting and ASO aignment
Circuit Tester	Trouble shooting
DCVTVM Voltage measurements (DC)	
AC Wattmeter	Monitors primary power to amplifier
Line Voltmeter	Monitors potential of primary power to amplifier
Variable Autotransformer	Adjust level of primery power to amplifier
Shorting Plug	Shorts amplifier input to eliminate noise pickup

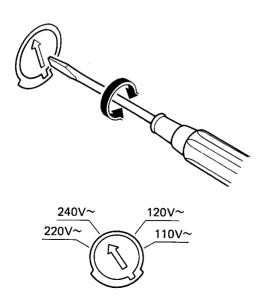
7. VOLTAGE CONVERSION

• EUROPEAN MODEL ONLY

To convert the unit to a different power source voltage, change the position as illustrated in the drawing below.

VOLTAGE SELECTOR

CAUTION
DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE.



8. ELECTRICAL PARTS LIST

ASSIGNMENT OF COMMON PARTS CODES. RESISTOR					
	GD05 140, Carbon film fixed resistor, ±5%, 1/4W GD05 160, Carbon film fixed resistor, ±5%, 1/6W				
	① — Resistance value				
Examples ①	Resistance value				
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$				
(Note)	Please distinguish 1/4W from 1/6W by the shape of parts used actually.				
C***: CER					
(1)	DD1 370, Ceramic condenser Disc type Temp. coeff. P350 ~ N1000, 50V				
	Capacity value Tolerance				
Examples	Televanor (Octobrilla)				
1	Tolerance (Capacity deviation) ±0.25pF0 ±0.5pF1 ±5%5				
* Tolerance	of COMMON PARTS handled here are as follows:				
	O.5pF ~ 5pF ±0.25pF 6pF ~ 10pF ±0.5pF				
2	12pF ~ 560pF±5% Capacity value				
	O.5pF005 3pF030 100pF101 1pF010 10pF100 220pF221				
	1.5pF015 47pF470 560pF561				
	AMIC CAP. DK16 300, High dielectric constant ceramic condenser Disc type				
	① Temp. chara. 2B4, 50V				
	Capacity value				
Example ②	Capacity value				
	100pF101 1000pF102 10000pF103 470pF471 2200pF222				
(1)	EROLY CAP. (幸), FILM CAP. (士) EA10, Electrolytic condenser One-way lead type, Tolerance ±20%				
	① ① Dielectric strength				
	Capacity value				
Examples ①	Capacity value				
Ü	$0.1\mu\text{F}104$ $4.7\mu\text{F}475$ $100\mu\text{F}107$				
	O.33μF334 10μF106 330μF337 1μF105 22μF226 1100μF108 2200μF228				
②	Working voltage 6.3V006 25V 025				
	10V010 35V035 16V016 50V050				
(2)	DF15 350, Plastic film condenser One-way type, Mylar + 5% 50V				
	Capacity value				
Examples					
①	Capacity value				
	0.001μF (1000pF)102 0.1μF104 				
	O.01μF103 1μF105 O.015μF153				

	REF. DESIG.	PART NO.	DESCRIPTION
			PG01-MASTER VOLUME CIRCUIT BOARD
	RG01	4822 101 30653	Variable Resistor 50KΩ
	:		PJ01-TAPE IN/OUT CIRCUIT BOARD
	CJ01 { CJ04	4822 122 32486	Ceramic Cap. 0.01μF +80% –20%
	JJ01 JJ02	4822 266 30284 4822 266 30284	Terminal, 4P RCA Terminal, 4P RCA
			PS01-TAPE/TONE/SPK. CIRCUIT BOARD
	CE09	4822 124 90352	Elect Cap. 10µF 16V
	CE10	4822 124 90352	/01B/02B/05B/07B Elect Cap. 10μF 16V /01B/02B/05B/07B
	CW01	4822 122 32486	Ceramic 0.01μF +80% –20%
	CW02	4822 122 32486	/02B/12B Ceramic 0.01µF +80% —20% /02B/12B
	RE13	4822 100 30139	Variable Resistor 50KΩ(C) /01B/02B/05B/07B
	RE14	4822 100 30139	Variable Resistor 50KΩ(C) /01B/02B/05B/07B
	RG51 RW01	4822 100 30138 4822 116 60455	Variable Resistor 100K $\Omega(MN)$ Metal Resistor 270 Ω ±5% 2W
	DN51	4822.130 33305	Diode 1SS176, etc.
	JW01	4822 267 31227	Jack, Headphone /01B/02B/05B/07B
		4822 267 31229	Jack /10B/12B/15B/17B
	LN51	4822 280 20196	Relay
8	SS01	4822 276 12956	Push Switch
			PV01-INPUT SELECTOR CIRCUIT BOARD
	CV01	4822 122 32486	Ceramic Cap. 0.01μF +80% –20%
	DV01	4822 130 33305	Diode 1SS176, etc.
	JV01 JV02	4822 266 30282 4822 266 30284	Terminal, 2P RCA Terminal, 4P RCA
	LV01	4822 280 20195	Relay, SZ-2104
	SV01	4822 277 21412	Slide Switch, Selector
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REF. DESIG.	PART NO.	DESCRIPTION	REF. DESIG.	PART NO.	DESCRIPTION
		PY01-TAPE INDICATOR			P451-RESISTORS
CY01	4822 124 21737	Elect Cap. 100µF 6.3V	A R471 R472	4822 111 90731 4822 111 30006	47Ω ±2% ¼W, Fuse 47Ω ±5% ¼W
RY06	4822 111 50474	Resistor $330\Omega \pm 5\%$	D451	4822 130 80498	P451-SEMICONDUCTORS Zener RD16JB2/MTZJ16C
DY01			Q451	4822 209 73064	IC NJM2068DD
} DY05	4822 130 80326	L.E.D. LT3D8B (RED)		1022 200 7000 7	P451-MISCELLANEOUS
DY06	4822 130 80317	Zener Diode RD5.1JB2/MTZJ5.1B	J452	4822 265 20355	Terminal, 2P RCA
		P451-PHONO AMP. CIRCUIT BOARD			P701-POWER AMP. CIRCUIT BOARD
C451	4000 400 00400	P451-CAPACITORS			P701-CAPACITORS
C451	4822 122 32486 4822 122 32486	Ceramic 0.01µF +80%20% Ceramic 0.01µF +80%20%	CN01 CN02	4822 124 22274 4822 124 41543	Elect 4.7μF 50V
C453	4822 126 11069	Ceramic 150pF ±10%	CN02	4822 124 41543	Elect 1μF 50V Elect 47μF 10V
	4000 404 5100=	/01B/05B/07B	CN05	4822 124 23417	Elect 33μF 10V
	4822 121 51037	Film 150pF ±5% /10B/12B/15B/17B	CW51	4822 122 32486	Ceramic 0.01µF +80% –20%
C454	4822 126 11069	Ceramic 150pF ±10% /01B/05B/07B	CW52		/02B/12B
	4822 121 51037	Film 150pF ±5% /10B/12B/15B/17B	CW52	4822 122 32486	Ceramic 0.01µF +80% –20% /02B/12B
C455	4000 404 00050	51	C701	4822 124 22571	Elect 10µF 50V
C455	4822 124 90352 4822 124 90352	Elect 10μF 16V Elect 10μF 16V	C702 C703	4822 124 22571	Elect 10μF 50V
C457	4822 124 41539	Elect 47µF 16V	C703	4822 121 51517 4822 121 51517	Film 100pF ±5% Film 100pF ±5%
C458	4822 124 41539	Elect 47μF 16V	C705	4822 124 90354	Elect 100µF 16V
C459	4822 126 11127	Ceramic 470pF ±10% /02B	C706	4822 124 90354	Elect 100μF 16V
C460	4822 126 11127	Ceramic 470pF ±10% /02B	C707	4822 121 51037	Film 150pF ±5%
C461	4822 121 42764	Film 0.047µF ±5% /10B/12B/15B/17B		4822 121 51037	/01B/02B/05B/07B Film 150pF ±5%
C462	4822 121 42764	Film 0.047µF ±5% /10B/12B/15B/17B		4822 126 11069	/10B/15B/17B Ceramic 150pF /12B
C463	4822 121 42755	Film 0.012µF ±5%	C708	4822 121 51037	Film 150pF ±5% /01B/02B/05B/07B
C464	4822 121 42755	/10B/12B/15B/17B Film 0.012μF ±5%		4822 121 51037	Film 150pF ±5% /10B/15B/17B
C465	4822 121 42758	/10B/12B/15B/17B Film 1800pF ±5%	C709	4822 126 11069 4822 126 11068	Ceramic 150pF /12B Ceramic 39pF ±5%
C466	4822 121 42758	/10B/12B/15B/17B Film 1800pF ±5%		4822 121 43135	/01B/02B/05B/07B Film 39pF ±5%
C467 C468	4822 124 90358 4822 124 90358	/10B/12B/15B/17B Elect 22μF 16V Elect 22μF 16V	C710	4822 126 10364	/10B/15B/17B Ceramic 100pF /12B
C469	4822 121 42763	Film 3900pF ±5%	0/10	4822 121 43135	Ceramic 39pF ±5% /01B/02B/05B/07B
C470	4822 121 42763	/10B/12B/15B/17B Film 3900pF ±5%		4822 126 10364	Film 39pF ±5% /10B/15B/17B Ceramic 100pF /12B
C471	4822 124 41535	/10B/12B/15B/17B Elect 100µF 25V	C711	4822 126 11126	Ceramic 7,00F / 128 Ceramic 5.6pF ±10% /01B/02B/05B/07B
	4822 124 90365	/01B/02B/05B/07B Elect 220μF 25V		4822 121 43128	Film 10pF ±10% /10B/12B/15B/17B
C472	4822 124 41535	/10B/12B/15B/17B Elect 100µF 25V	C712	4822 126 11126	Ceramic 5.6pF ±10% /01B/02B/05B/07B
	4822 124 90365	/01B/02B/05B/07B Elect 220µF 25V		4822 121 43128	Film 10pF ±10% /10B/12B/15B/17B
		/10B/12B/15B/17B	C713	4822 126 11125	Ceramic 10pF ±5% /01B/02B/05B/07B
C473	4822 124 41535	Elect 100µF 25V /01B/02B/05B/07B		4822 121 43128	Film 10pF ±10% /10B/12B/15B/17B
	4822 124 90365	Elect 220µF 25V /10B/12B/15B/17B			

REF. DESIG.	PART NO.	DESCRIPT	TION
DE313.			
C714	4822 126 11125	Ceramic 10pF /01B/02B/05B/07B	±5%
	4822 121 43128	Film 10pF /10B/12B/15B/17B	±10%
C715	4822 124 90362	Flect 22μF /01B/02B/05B/07B	50V
C716	4822 124 90362	Elect 22μF /01B/02B/05B/07B	50V
C717 C718	4822 124 90366 4822 124 90366	Elect 220μF Elect 220μF	50V 50V
C719	4822 124 41535	Elect 100µF /01B/02B/05B/07B	25V
	4822 124 90365	Elect 220µF	25V
C720	4822 124 41535	/10B/12B/15B/17B Elect 100µF	25V
	4822 124 90365	/01B/02B/05B/07B Elect 220µF	25V
C751	4822 124 90354	/10B/12B/15B/17B Elect 100µF	16V
C752	4822 124 90354	Elect 100μF	16V
C753			
≀ C756	4822 121 43126	Film 120pF	±5%
▲ C801	4822 124 23458	Elect 4700μF /01B/02B/05B/07B	42V
	4822 124 42044	Elect 6800μF /10B/12B/15B/17B	45V
▲ C802	4822 124 23458	Elect 4700μF	42V
	4822 124 42044	/01B/02B/05B/07B Elect 6800μF	45V
C803 C804	4822 124 22273 4822 122 32486	/10B/12B/15B/17B Elect 0.47µF Ceramic 0.01µF	50V +80% –20%
C805 C806	4822 124 41535 4822 124 41536	Elect 100μF Elect 100μF	25V
C807	4822 124 90355	Elect 100μF	35V 50V
C808 C809	4822 124 90355 4822 122 32486	Elect 100μF Ceramic 0.01μF	50V +80% –20%
DNO	4000 444 04057	P701-RESISTORS	
RN01 RN02	4822 111 91257 4822 111 91257	1KΩ ±5% 1KΩ ±5%	1/6W 1/6W
RN51 RN52	4822 116 60455 4822 116 60455	270Ω ±5% 270Ω ±5%	2W, Metal 2W, Metal
▲ R707	4822 116 82608	680Ω ±2%	¼W, Fuse
	4822 116 81748	/02B/05B 330Ω ±2%	¼W, Fuse
▲ R708	4822 116 82608	/12B/15B 680Ω ±2%	¼W, Fuse
	4822 116 81748	/02B/05B 330Ω ±2%	¼W, Fuse
R713	4822 273 10214	/12B/15B 33KΩ ±5%	%W
R714	4822 273 10214	33KΩ ±5%	14W
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REF. DESIG.	PART NO.	DESCRIPTION
R732 AR733 AR734 R755 R756 R757 R758 R759 R760 R763	4822 116 60343 4822 116 60313 4822 116 60313 4822 100 11373 4822 100 11373 4822 111 91285 4822 111 91285 4822 111 91285 4822 111 91285 4822 116 60267	1.8KΩ ±5% 1W 10Ω ±5% ½W, Fusible 10Ω ±5% ½W, Fusible 4.7KΩ, Trimming 4.7KΩ, Trimming 100Ω ±5% 1/6W 100Ω ±5% 1/6W 100Ω ±5% 1/6W 100Ω ±5% 1/6W 470Ω ±5% 1/6W
R764 ▲ R765 ▲ R766 R767 R768 R769 R770 R771 R772 ▲ R773	4822 116 60267 4822 111 91424 4822 111 91424 4822 116 82049 4822 116 52849 4822 116 52849 4822 111 90726 4822 111 90726 4822 111 91424 4822 111 91424	470Ω ±5% 1/6W 2.2Ω ±5% 1/6W 2.2Ω ±5% 1/6W 0.18Ωx2 ±10% 3W 0.18Ωx2 ±10% 3W 220Ω ±5% ½W 10Ω ±5% ½W 10Ω ±5% 2W 10Ω ±5% 2W 2.2Ω ±5% 1/6W 2.2Ω ±5% 1/6W
▲ R801 ▲ R802 ▲ R803 ▲ R804 R805 R806 ▲ R807	4822 116 60306 4822 111 90731 4822 111 60308 4822 111 90731 4822 111 91423 4822 111 91423 4822 113 90119	1Ω $\pm 5\%$ ½W, Fusible 47Ω $\pm 2\%$ ¼W, Fuse 2.2Ω $\pm 5\%$ ½W, Fuse 47Ω $\pm 2\%$ ¼W, Fuse 1.2KΩ $\pm 5\%$ ½W 1.2KΩ $\pm 5\%$ ½W 22Ω $\pm 2\%$ ½W, Fuse
DN01 DN02 DN03	4822 130 80837 4822 130 80837 4822 130 33305	P701-SEMICONDUCTORS Diode HSS81 Diode HSS81 Diode 1SS176, etc.
D701	4822 130 33305 4822 130 80273 4822 130 80322	Diode 1SS176, etc. Zener RD8.2JB2/MTZJ8.2C Zener RD15JB1/MTZJ15B
▲ D801 D802 D803 D804 D805 ▲ D806	4822 130 31007 4822 130 33305 4822 130 33305 4822 130 80116 4822 130 80498 4822 130 80839	Diode S4VB-20 Diode 1SS176, etc. Diode 1SS176, etc. Zener RD24JB2/MTZJ24D Zener RD16JB2/MTZJ16C Diode S5688G
QN01 QN02 QN03 QN04	4822 130 43233 4822 130 43233 4822 130 42951 4822 290 83312	Transistor 2SC2240(GR, BL) Transistor 2SC2240(GR, BL) Transistor 2SA970(GR, BL) IC TA7317P
Q701 Q702 Q703 Q704 Q705 Q751 Q752 Q757 Q758 Q759	4822 130 42951 4822 130 42951 4822 130 43233 4822 130 43233 4822 209 83732 4822 130 60526 4822 130 60526 4822 130 60696 4822 130 60696 4822 130 69693	Transistor 2SA970(GR, BL) Transistor 2SC2240(GR, BL) Transistor 2SC2240(GR, BL) Transistor 2SC2240(GR, BL) IC AN7062P Transistor 2SD1508 Transistor 2SC1627(O, Y) Transistor 2SC1627(O, Y) Transistor 2SA817(O, Y)

REF. DESIG.	PART NO.	DESCRIPTION
		PY01-TAPE INDICATOR CIRCUIT BOARD
CY01	4822 124 21737	Elect Cap. 100µF 6.3V
RY06	4822 111 50474	Resistor 330 Ω ±5%
DY01 }	4822 130 80326	L.E.D. LT3D8B (RED)
DÝ05 DY06	4822 130 80317	Zener Diode RD5.1JB2/MTZJ5.1B
		P451-PHONO AMP.
		CIRCUIT BOARD
C451	4822 122 32486	P451-CAPACITORS Ceramic 0.01μF +80% -20%
C452 C453	4822 122 32486 4822 126 11069	Ceramic
	4822 121 51037	/01B/05B/07B Film 150pF ±5%
C454	4822 126 11069	/10B/12B/15B/17B Ceramic 150pF ±10%
	4822 121 51037	/ /01B/05B/07B Film 150pF ±5% /10B/12B/15B/17B
C455	4822 124 90352	Elect 10μF 16V
C456	4822 124 90352	Elect 10µF 16V
C457	4822 124 41539	Elect 47μF 16V
C458 C459	4822 124 41539	Elect 47μF 16V
C459 C460	4822 126 11127 4822 126 11127	Ceramic 470pF ±10% /02B Ceramic 470pF ±10% /02B
C461	4822 121 42764	Film 0.047μF ±5%
C462	4822 121 42764	/10B/12B/15B/17B Film 0.047µF ±5% /10B/12B/15B/17B
C463	4822 121 42755	Film 0.012µF ±5%
C464	4822 121 42755	/10B/12B/15B/17B Film 0.012µF ±5%
C465	4822 121 42758	/10B/12B/15B/17B Film 1800pF ±5%
C466	4822 121 42758	/10B/12B/15B/17B Film 1800pF ±5%
C467	4822 124 90358	/10B/12B/15B/17B Elect 22µF 16V
C468	4822 124 90358	Elect 22μF 16V
C469	4822 121 42763	Film 3900pF ±5% /10B/12B/15B/17B
C470	4822 121 42763	Film 3900pF ±5% /10B/12B/15B/17B
C471	4822 124 41535	Elect 100µF 25V /01B/02B/05B/07B
C472	4822 124 90365 4822 124 41535	Elect 220µF 25V /10B/12B/15B/17B Elect 100µF 25V
U-1/2	4822 124 41535	Elect 100µF 25V /01B/02B/05B/07B Elect 220µF 25V
	1022 124 30303	/10B/12B/15B/17B
C473	4822 124 41535	Elect 100µF 25V /01B/02B/05B/07B
	4822 124 90365	Elect 220µF 25V /10B/12B/15B/17B
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REF. DESIG.	PART NO.	DESCRIPTION
▲ R471 R472	4822 111 90731 4822 111 30006	P451-RESISTORS 47Ω ±2% ½W, Fuse 47Ω ±5% ½W
D451	4822 130 80498	P451-SEMICONDUCTORS Zener RD16JB2/MTZJ16C
Q451	4822 209 73064	IC NJM2068DD
J452	4822 265 20355	P451-MISCELLANEOUS Terminal, 2P RCA
		P701-POWER AMP. CIRCUIT BOARD
CN01 CN02 CN04 CN05	4822 124 22274 4822 124 41543 4822 124 22275 4822 124 23417	P701-CAPACITORS Elect 4.7μF 50V Elect 1μF 50V Elect 47μF 10V Elect 33μF 10V
CW51	4822 122 32486	Ceramic 0.01µF +80% -20% /02B/12B
CW52	4822 122 32486	Ceramic 0.01µF +80% -20% /02B/12B
C701 C702 C703 C704 C705 C706 C707 C708	4822 124 22571 4822 124 22571 4822 121 51517 4822 121 51517 4822 124 90354 4822 124 90354 4822 121 51037 4822 121 51037 4822 126 11069 4822 121 51037 4822 126 11069 4822 121 51037 4822 126 11069 4822 121 43135 4822 126 10364 4822 121 43135 4822 126 10364 4822 126 10364 4822 126 10364 4822 126 10364	Elect 10μF 50V Elect 10μF 50V Film 100pF ±5% Film 100pF ±5% Elect 100μF 16V Elect 100μF 16V Film 150pF ±5% /01B/02B/05B/07B Film 150pF ±5% /10B/15B/17B Ceramic 150pF /12B Film 150pF ±5% /01B/02B/05B/07B Film 150pF ±5% /10B/15B/17B Ceramic 30pF ±5% /10B/15B/17B Ceramic 30pF ±5% /10B/02B/05B/07B Film 30pF ±5% /10B/15B/17B Ceramic 30pF ±5% /10B/15B/17B Ceramic 30pF ±5% /10B/15B/17B Ceramic 30pF ±5% /10B/15B/17B Ceramic 100pF /12B Ceramic 30pF ±5% /01B/02B/05B/07B Film 30pF ±5% /10B/15B/17B Ceramic 100pF /12B Ceramic 5.6pF ±10%
C712	4822 121 43128 4822 126 11126	/01B/02B/05B/07B Film 10pF ±10% /10B/12B/15B/17B Ceramic 5.6pF ±10%
	4822 121 43128	/01B/02B/05B/07B Film 10pF ±10%
C713	4822 126 11125	/10B/12B/15B/17B Ceramic 10pF ±5%
	4822 121 43128	/01B/02B/05B/07B Film 10pF ±10% /10B/12B/15B/17B

REF. DESIG.	PART NO.	DESCRIPT	FION
C714	4822 126 11125	Ceramic 10pF /01B/02B/05B/07B	±5%
	4822 121 43128	Film 10pF /10B/12B/15B/17B	±10%
C715	4822 124 90362	Flect 22μF /01B/02B/05B/07B	50V
C716	4822 124 90362	Elect 22µF	50V
C717 C718	4822 124 90366 4822 124 90366	/01B/02B/05B/07B Elect 220μF Elect 220μF	50V 50V
C719	4822 124 41535	Elect 100µF	25V
	4822 124 90365	/01B/02B/05B/07B Elect 220µF	25V
C720	4822 124 41535	/10B/12B/15B/17B Elect 100μF	25V
	4822 124 90365	/01B/02B/05B/07B Elect 220μF	25V
C751	4822 124 90354	/10B/12B/15B/17B Elect 100µF	16V
C752	4822 124 90354	Elect 100μF	16V
C753	4822 121 43126	Film 120pF	±5%
▲ C801	4822 124 23458	Elect 4700µF	42V
	4822 124 42044	/01B/02B/05B/07B Elect 6800µF	45V
▲ C802	4822 124 23458	/10B/12B/15B/17B Elect 4700µF	42V
	4822 124 42044	/01B/02B/05B/07B Elect 6800µF /10B/12B/15B/17B	45V
C803 C804	4822 124 22273 4822 122 32486	Elect 0.47μ F Ceramic 0.01μ F	50V +80% –20%
C805 C806 C807 C808 C809	4822 124 41535 4822 124 41536 4822 124 90355 4822 124 90355 4822 122 32486	Elect 100µF Elect 100µF Elect 100µF Elect 100µF Ceramic 0.01µF	25V 35V 50V 50V +80% -20%
Duca		P701-RESISTORS	
RN01 RN02 RN51 RN52	4822 111 91257 4822 111 91257 4822 116 60455 4822 116 60455	1ΚΩ ±5% 1ΚΩ ±5% 270Ω ±5% 270Ω ±5%	1/6W 1/6W 2W, Metal 2W, Metal
▲ R707	4822 116 82608	680Ω ±2%	¼W, Fuse
	4822 116 81748	/02B/05B 330Ω ±2%	¼W, Fuse
▲ R708	4822 116 82608	/12B/15B 680Ω ±2%	¼W, Fuse
	4822 116 81748	/02B/05B 330Ω ±2%	¼W, Fuse
R713	4822 273 10214	/12B/15B 33KΩ ±5%	14W
R714	4822 273 10214	33KΩ ±5%	%W
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REF. DESIG.	PART NO.	D	ESCRIP	TION
D300	4000 440 000 15	4.00-	les:	
R732	4822 116 60343	1.8KΩ	±5%	1W
▲ R733 ▲ R734	4822 116 60313 4822 116 60313	10Ω	±5%	½W, Fusible
		10Ω	. ±5%	½W, Fusible
R755	4822 100 11373	4.7KΩ, Tr		
R756	4822 100 11373	4.7KΩ, Tr		
R757	4822 111 91285	100Ω	±5%	1/6W
R758	4822 111 91285	100Ω	±5%	1/6W
R759	4822 111 91285	100Ω	±5%	1/6W
R760 R763	4822 111 91285	100Ω	±5%	1/6W
	4822 116 60267	470Ω	±5%	1/6W
R764 ▲ R765	4822 116 60267 4822 111 91424	470Ω 2.2Ω	±5% ±5%	1/6W
▲ R766	4822 111 91424	2.2Ω	±5% ±5%	1/6W 1/6W
R767	4822 116 82049	0.18Ω×2		3W
R768	4822 116 82049	0.18Ω×2		
R769	4822 116 52849	220Ω	±10% ±5%	3W
R770	4822 116 52849	220Ω	±5% ±5%	1/4W
R771	4822 111 90726			1/4W
R771	4822 111 90726	10Ω 10Ω	±5% ±5%	2W
A R773	4822 111 91/26	10Ω		2W
AR774	4822 111 91424	2.2Ω	±5%	1/6W
≖ ⊓//4	+022 111 91424	2.2Ω	±5%	1/6W
A R801	4822 116 60306	1Ω	±5%	½W, Fusible
▲ R802 ▲ R803	4822 111 90731	47Ω	±2%	¼W, Fuse
A R803 A R804	4822 111 60308 4822 111 90731	2.2Ω	±5%	½W, Fusible
R805		47Ω	±2%	¼W, Fuse
R806	4822 111 91423 4822 111 91423	1.2KΩ	±5%	1/4W
A R807	4822 113 90119	1.2KΩ	±5%	%W
AB 11007	4022 113 90119	22Ω	±2%	¼W, Fuse
DNO1	4000 400 0000	P701-SEMIC		TORS
DN01	4822 130 80837	Diode	HSS81	
DN02	4822 130 80837	Diode	HSS81	
DN03	4822 130 33305	Diode	1SS176	i, etc.
D701				
- }	4822 130 33305	Diode	188176	i, etc.
D704	1000 100 0000	_		
D705 D706	4822 130 80273 4822 130 80322	Zener Zener		IB2/MTZJ8.2C B1/MTZJ15B
▲ D801	4822 130 31007	Diada		
D802	4822 130 33305	Diode	S4VB-2	
D803	4822 130 33305	Diode	188176	
D803	4822 130 33305	Diode	188176	
D805	4822 130 80498	Zener		B2/MTZJ24D
▲ D806	4822 130 80498	Zener Diode	S56880	B2/MTZJ16C
2 D000		Diode	22088(3
QN01	4822 130 43233	Transistor	2SC224	10(GR, BL)
QN02	4822 130 43233	Transistor	2SC224	10(GR, BL)
QN03	4822 130 42951	Transistor		O(GR, BL)
QN04	4822 290 83312	IC	TA731	7P
Q701	4822 130 42951	Transistor	2SA970	O(GR, BL)
Q702	4822 130 42951	Transistor		O(GR, BL)
Q703	4822 130 43233	Transistor		10(GR, BL)
Q704	4822 130 43233	Transistor		10(GR, BL)
Q705	4822 209 83732	IC	AN706	
Q751	4822 130 60526	Transistor	2SD150	
Q752	4822 130 60526	Transistor	2SD150	
Q757	4822 130 60696	Transistor		7(O, Y)
Q758	4822 130 60696	Transistor		7(O, Y)
Q759	4822 130 69693	Transistor	2SA817	• .
-			20/10/17	, 17
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REF.	<u> </u>	
DESIG.	PART NO.	DESCRIPTION
Q760	4822 130 60693	Transistor 2SA817(O, Y)
▲ Q761	4822 130 60697	Transistor 2SC3180N(R, O)
▲ Q761	4822 130 43305	/01B/02B/05B/07B Transistor 2SC3181(R, O) /10B/12B/15B/17B
▲ Q762	4822 130 60697	Transistor 2SC3180N(R, O) /01B/02B/05B/07B
▲ Q762	4822 130 43305	Transistor 2SC3181(R, O)
▲ Q763	4822 130 60694	/10B/12B/15B/17B Transistor 2SA1263N(R, O)
▲ Q763	4822 130 43018	/01B/02B/05B/07B Transistor 2SA1264(R, O) /10B/12B/15B/17B
▲ Q764	4822 130 60694	Transistor 2SA1263N(R, O)
▲ Q764	4822 130 43018	/01B/02B/05B/07B Transistor 2SA1264(R, O) /10B/12B/15B/17B
Q801 Q802	4822 130 61179 4822 130 61176	Transistor 2SD2037(E, F) Transistor 2SB1357(E, F)
JW51	4822 290 81363 4822 290 81373 4822 290 60837 4822 290 60841	P701-MISCELLANEOUS Terminal, Speaker /01B/05B/07B Terminal, Speaker /02B Terminal, Speaker /10B/15B/17B Terminal, Speaker /12B
JW52	4822 290 81364 4822 290 81373 4822 290 60836 4822 290 60839	Terminal, Speaker /01B/05B/07B Terminal, Speaker /02B Terminal, Speaker /10B/15B/17B Terminal, Speaker /12B
LN01	4822 280 20197	Relay, DH2SU
L751 L752	4822 157 51739 4822 157 51739	Coil, Speaker Coil, Speaker
		P901-POWER SWITCH
▲ F902	4822 070 31002	CIRCUIT BOARD Fuse 1A 250V /02B/05B/07B/10B/12B/15B/17B
▲ G901	4822 121 43732	Film Cap. 0.01µF ±20%
▲ G902	4822 122 33276	/01B/02B/07B/10B/12B/17B Ceramic Cap. 0.01µF ±20% /05B/15B
▲ J903	4822 264 30313	Jack, AC Outlet /01B
▲ S901	4822 276 11654	Push Switch, Power

NOTE ON SAFETY:
Symbol A Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol A. Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.